

p7 hexamers in membranes of HepG2 cells

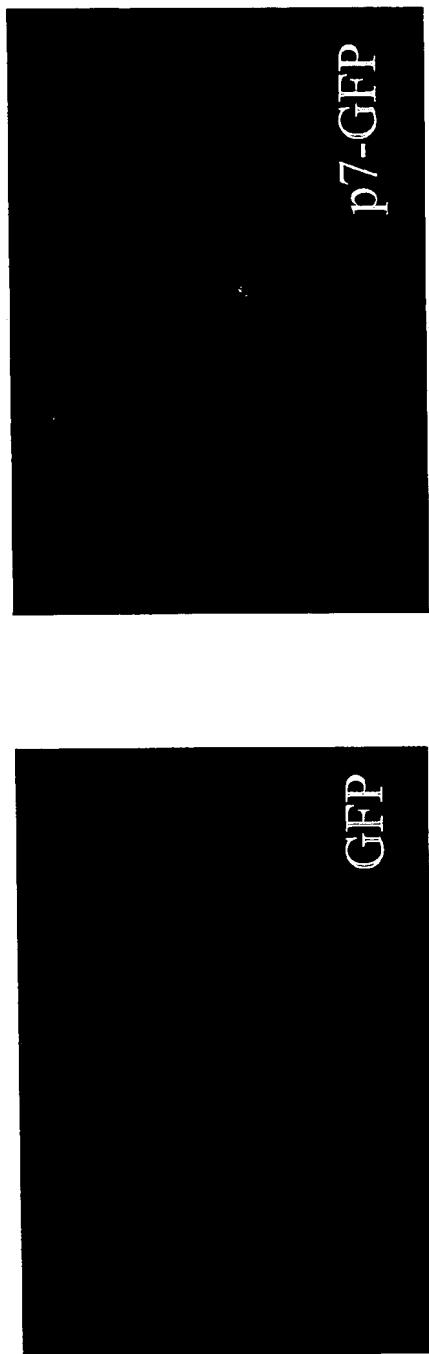
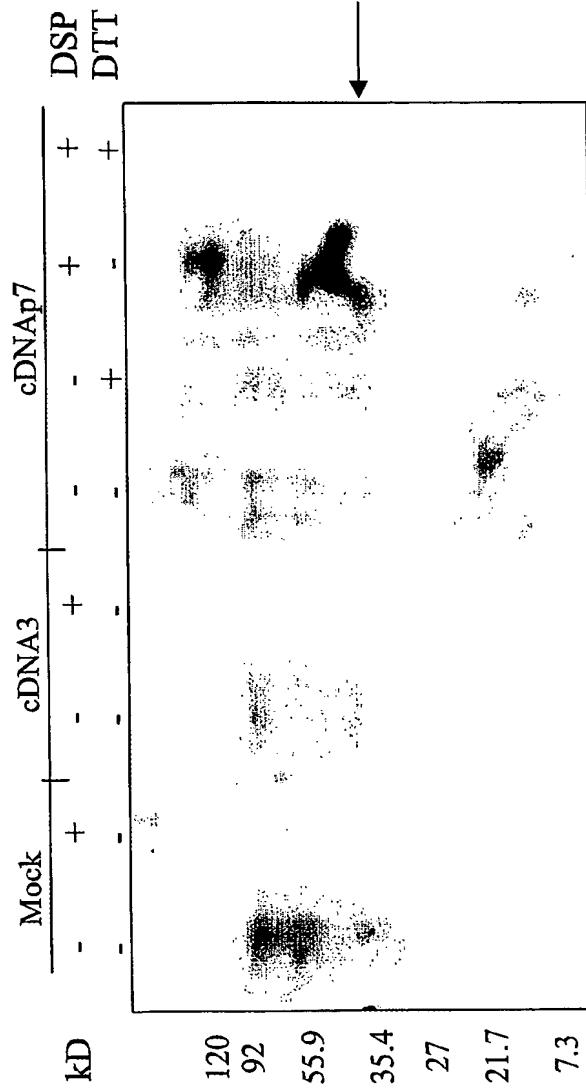
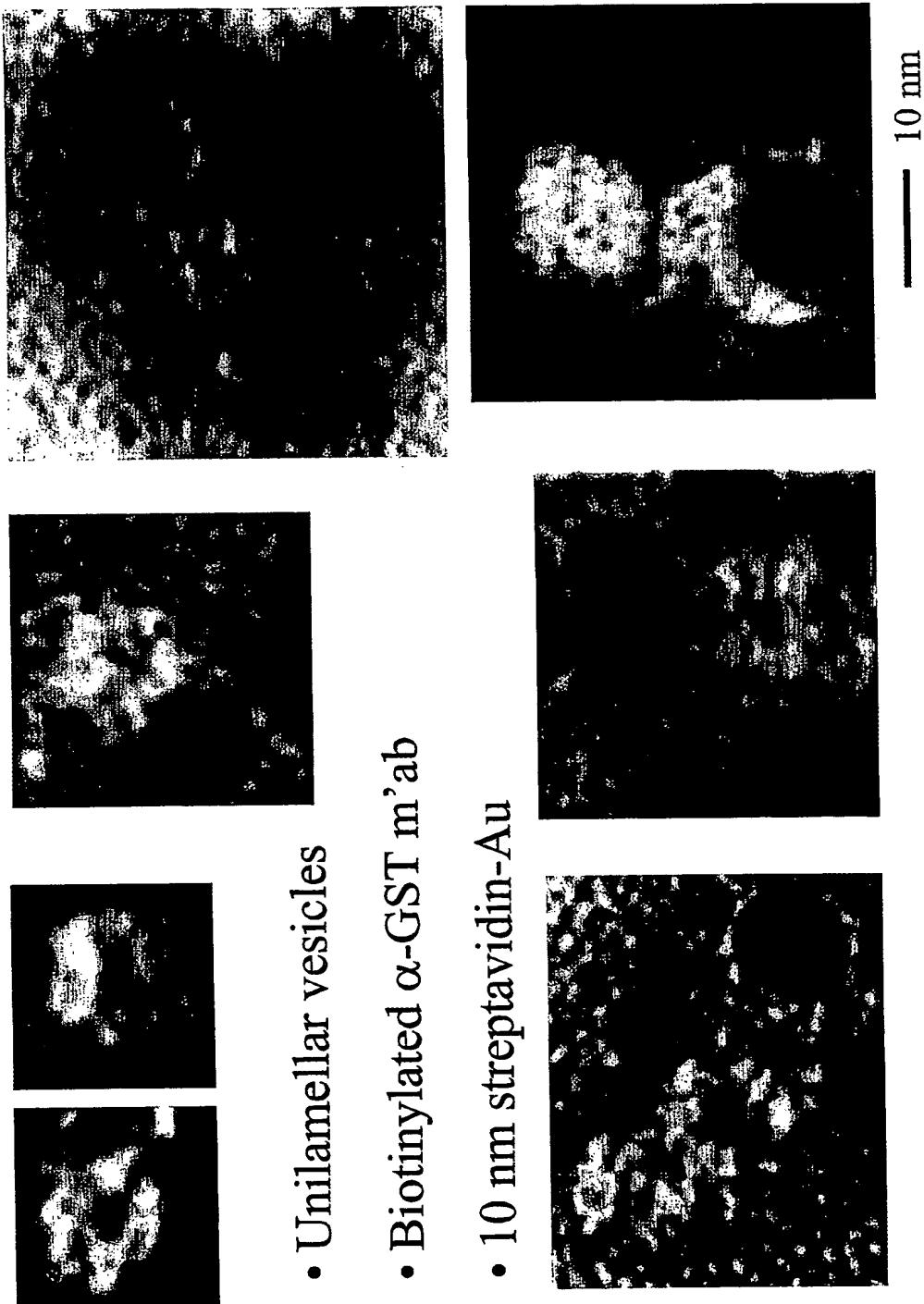


FIGURE 1



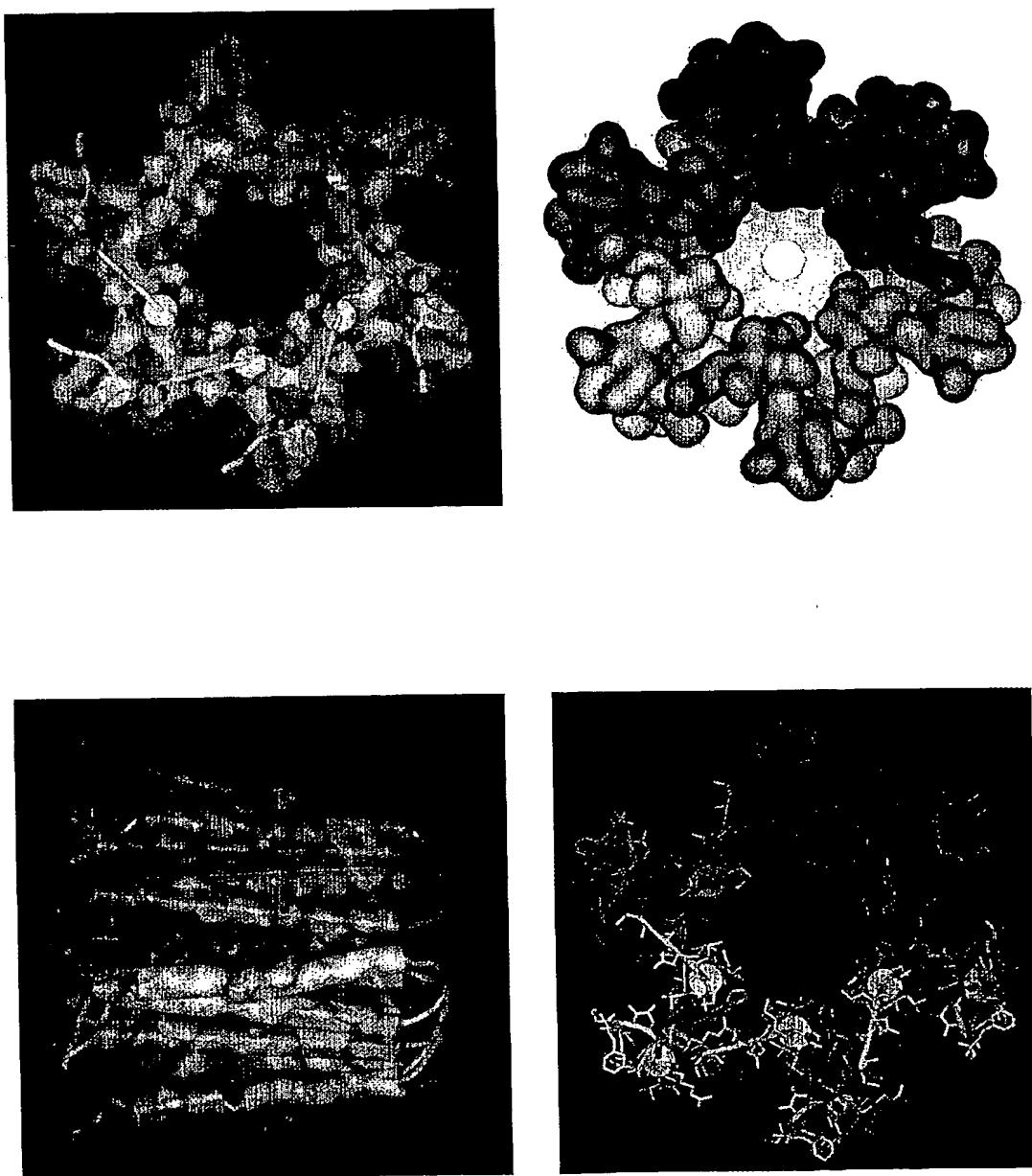
TEM of GSTp7 in liposomes

FIGURE 2



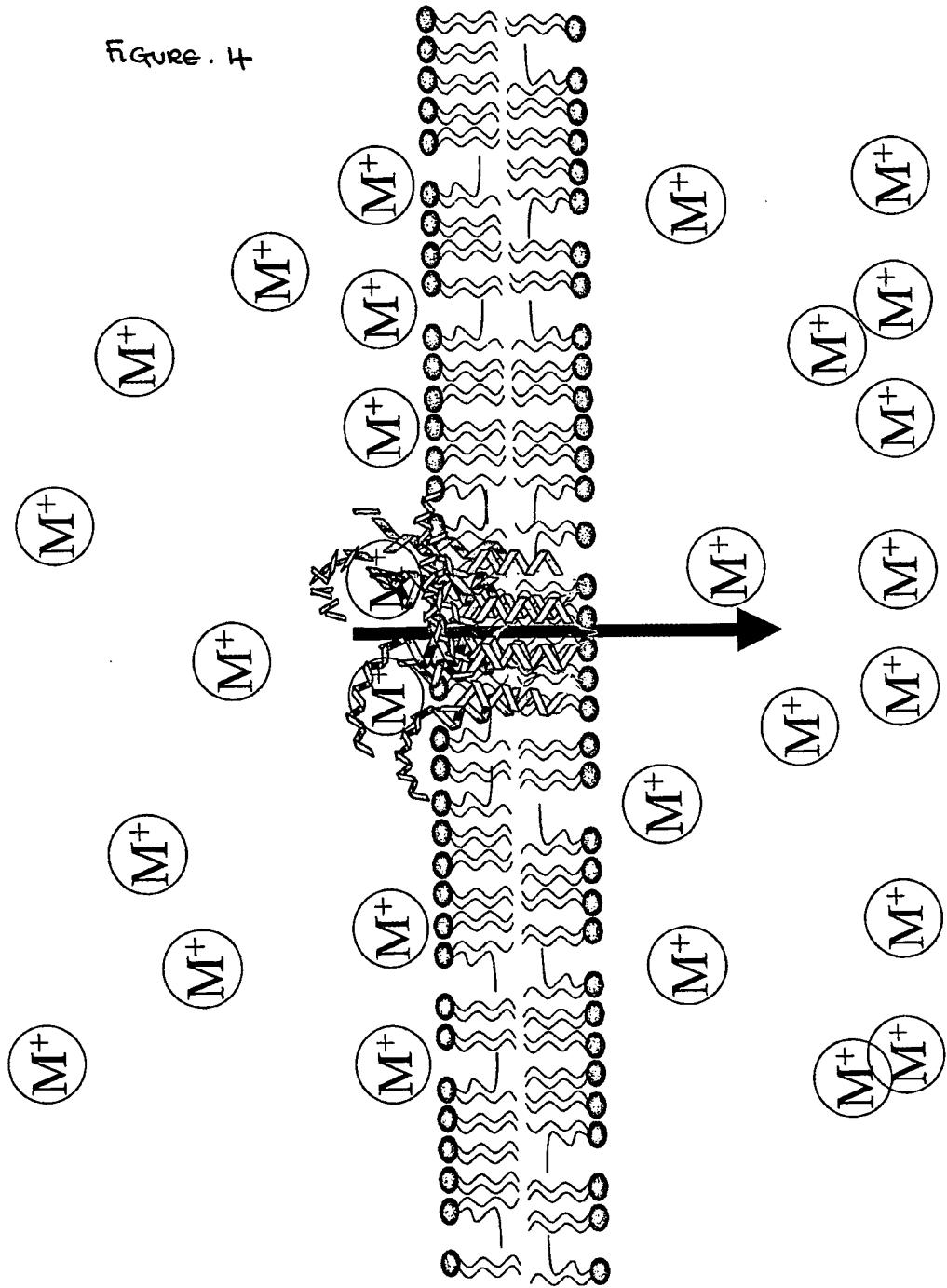
Computer modelling of p7 hexamerisation

FIGURE 3



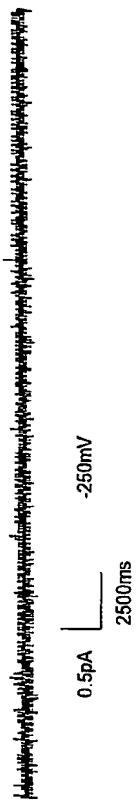
Black Lipid Membranes (BLM)

FIGURE. 4



GSTp7 displays voltage-gated ion channel activity in Black Lipid Membranes (BLM)

No protein



+ GST



+ GSTp7

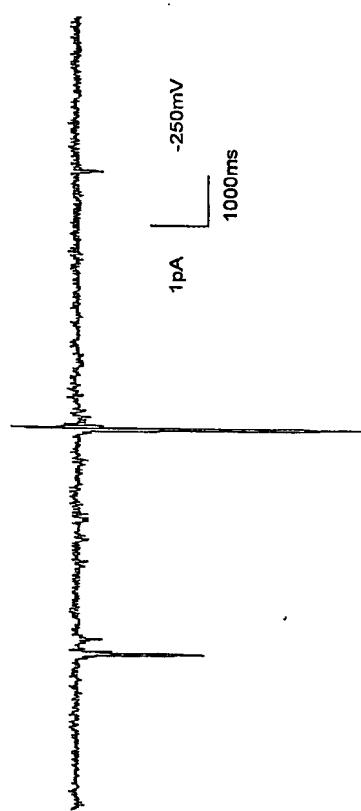


Figure 5
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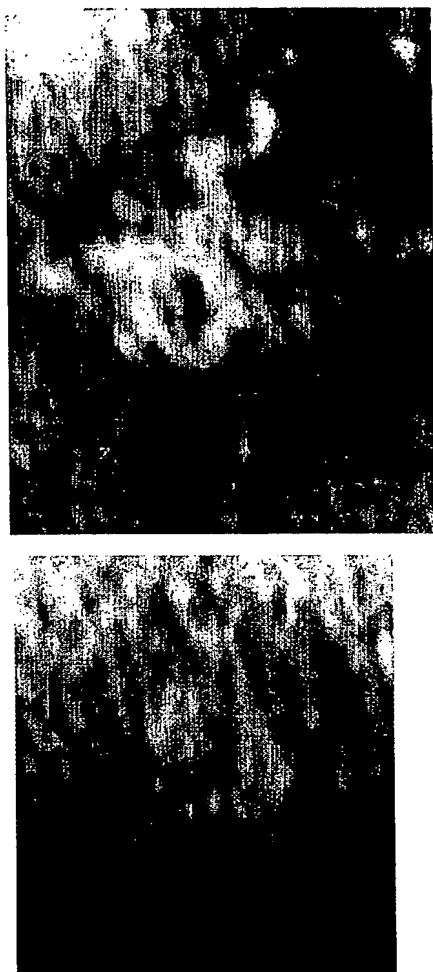
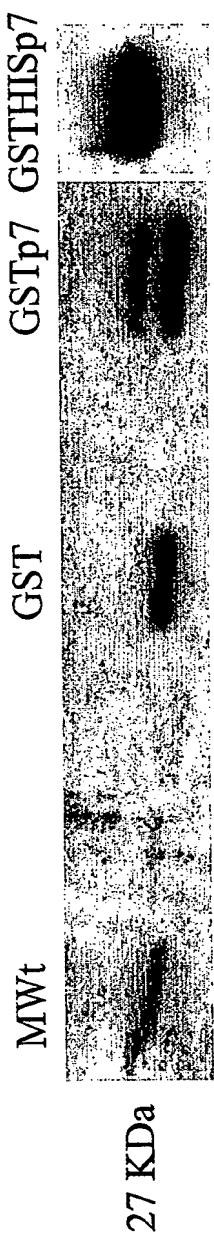
Stabilisation of GST fusions by introduction of 6-HIS linker; GSTHISp7

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FIGURE 6



TEM of GSTHISp7

- Unilamellar vesicles
- Biotinylated α -GST m'ab
- 10 nm streptavidin-Au

GSTHISp7 shows calcium channel activity in BLM

K⁺ Electrolyte



Ca²⁺ Electrolyte

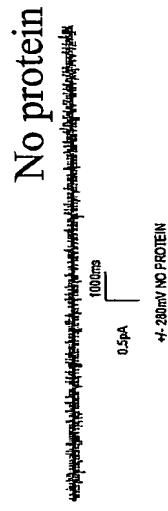
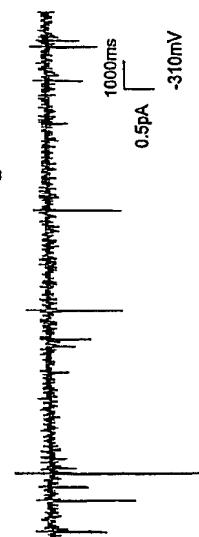
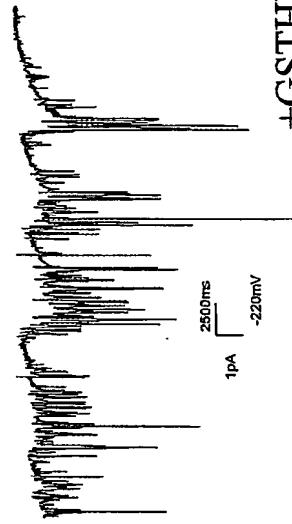


figure 7

+GSTHISp7

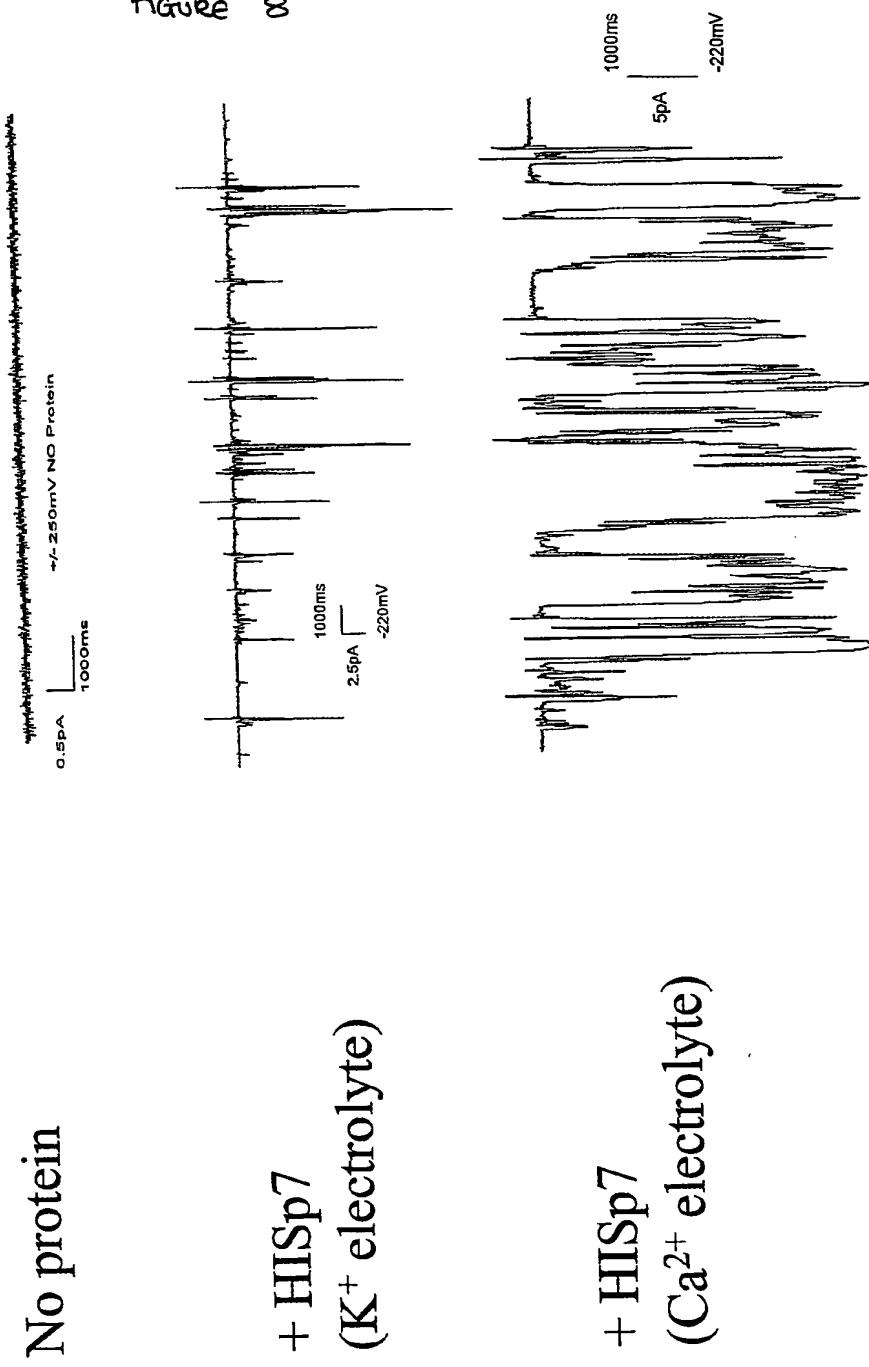


+GSTHISp7
(-ve voltage)



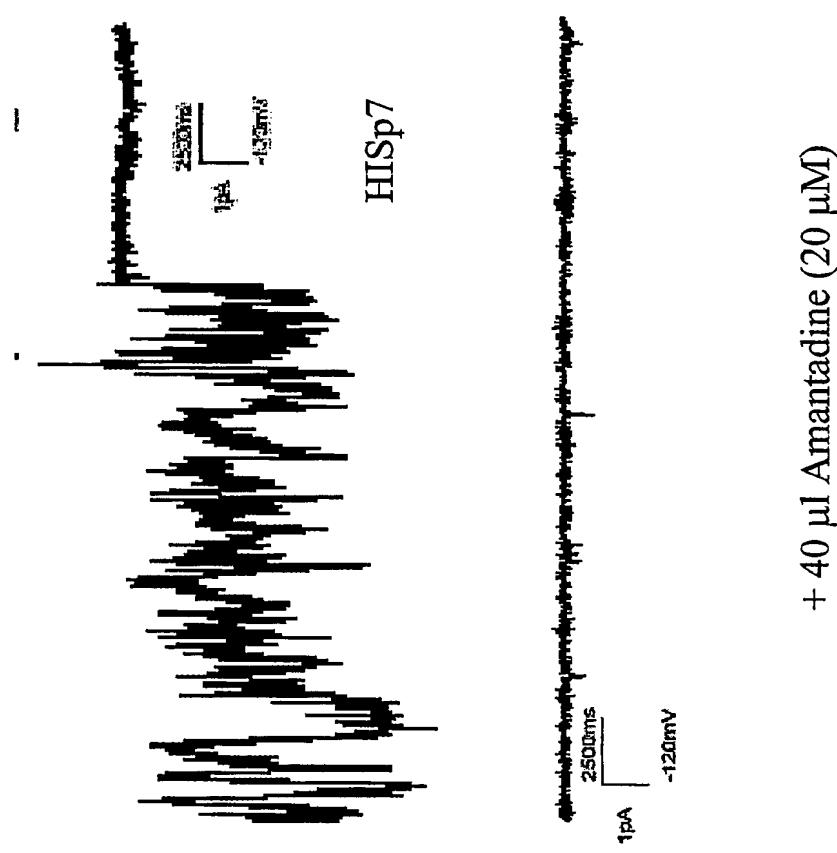
HISp7 forms Ca^{2+} channels in BLM with extremely high efficiency

Figure 8

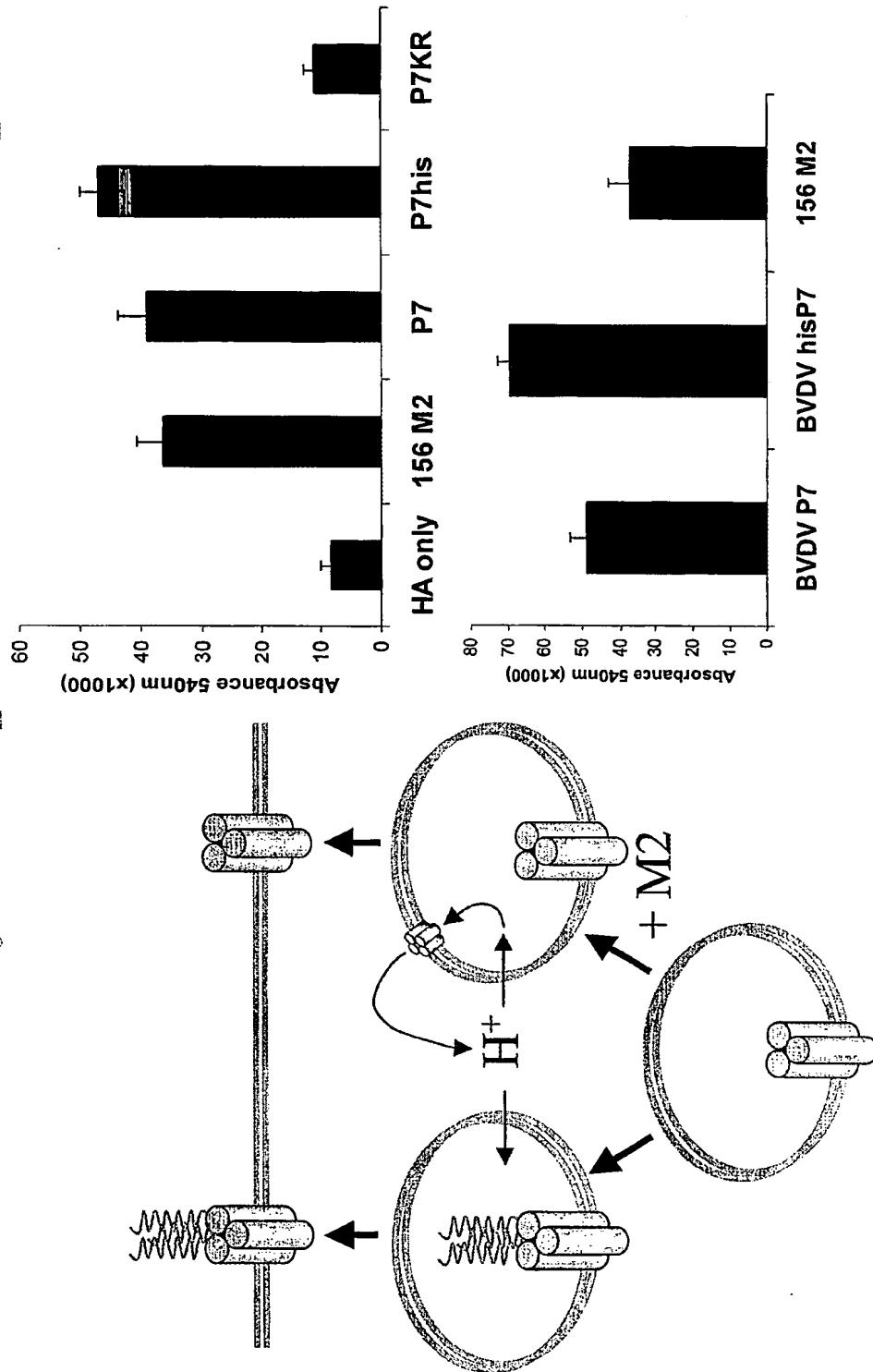


Amantadine inhibits ion channel formation by
HISp7

FIGURE 9



Transport of functional influenza H5 HA is facilitated by co-expression with HCV p7

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Figure 10

HA transport is inhibited in the presence of Amantadine and by KR mutant

Figure 11

